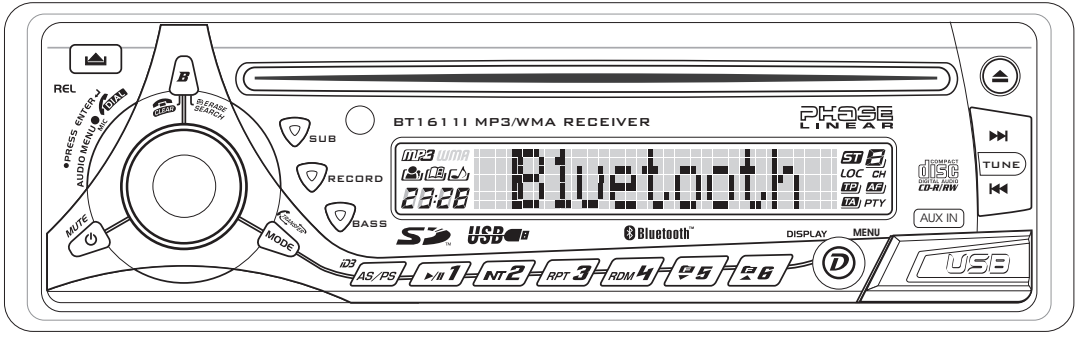
BT1611i

Owner's Manual



AM/FM/CD/MP3/WMA Receiver
with Bluetooth Technology

PREPARATION

Getting Started

Congratulations on your purchase of the Phase Linear BT1611i Mobile AM/FM/CD/MP3/WMA Receiver. It's a good idea to read all of the instructions before beginning the installation. We recommend having your Phase Linear BT1611i installed by a reputable installation shop.

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Installation Requirements

This unit is designed for installation in cars, trucks and vans with an existing radio opening. In many cases, a special installation kit will be required to mount the radio to the dashboard. These kits are available at electronics supply stores and car stereo specialty shops. Always check the kit application before purchasing to make sure the kit works with your vehicle. If you need a kit but cannot locate one, call our customer support line at 1-800-323-4815. (U.S.A. and Canada only.)

Tools and Supplies

The following tools and supplies are needed to install the radio.

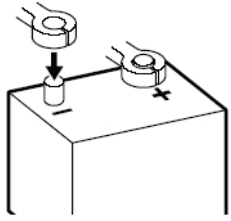
- Torx type, flathead and Philips screwdrivers
- Wire cutters and strippers
- Tools to remove existing radio (screwdriver, socket wrench set or other tools)
- Electrical tape
- Crimping tool
- Volt meter/test light
- Crimp connections
- 18 gauge wire for power connections
- 16-18 gauge speaker wire

Speaker Requirements

Only connect speakers rated with a load impedance of 4 ohms. Speakers with a load impedance of less than 4 ohms could damage the unit.

Disconnect Battery

Before you begin, disconnect the battery negative terminal.



Toll-Free Installation Assistance

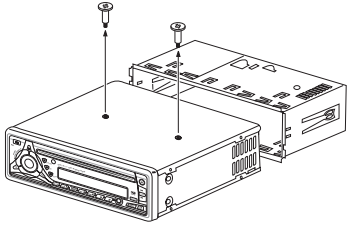
If you require assistance, contact Technical Support at 1-800-323-4815 from 8:30 a.m. to 7:00 p.m. EST Monday through Friday and from 9:00 a.m. to 5:00 p.m. EST on Saturday. (U.S.A. and Canada only.)

INSTALLATION INSTRUCTIONS

This unit is designed for installation in cars, trucks and vans with an existing radio opening. In many cases, a special installation kit will be required to mount the radio to the dashboard. These kits are available at electronics supply stores and car stereo specialty shops. Always check the kit application before purchasing to make sure the kit works with your vehicle.

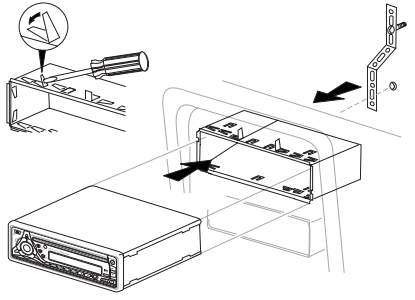
Pre-installation

1. **Disconnect Battery**
   Before you begin, always disconnect the battery negative terminal.
2. **Remove Transport Screws**



Universal Installation Using Mounting Sleeve

1. Remove the detachable front panel, if it is attached to the chassis, by pushing the “Release” button.
2. Slide the mounting sleeve off of the chassis if it has not already been removed. If it is locked into position, use the removal keys (supplied) to disengage it. The removal keys are depicted on page 5.
3. Check the dashboard opening size by sliding the mounting sleeve into it. If the opening is not large enough, carefully cut or file as necessary until the sleeve easily slides into the opening. Do not force the sleeve into the opening or cause it to bend or bow. Check that there will be sufficient space behind the dashboard for the radio chassis.
4. Locate the series of bend tabs along the top, bottom and sides of the mounting sleeve. With the sleeve fully inserted into the dashboard opening, bend as many of the tabs outward as necessary to firmly secure the sleeve to the dashboard.
5. Place the radio in front of the dashboard opening so the wiring can be brought through the mounting sleeve.



6. Follow the wiring diagram carefully and make certain all connections are secure and insulated with crimp connectors or electrical tape to ensure proper operation.
7. After completing the wiring connections, attach the front panel and turn the unit on to confirm operation (vehicle ignition switch must be on). If the unit does not operate, recheck all wiring until the problem is corrected. Once proper operation is achieved, turn the ignition switch off and proceed with final mounting of the chassis.
8. Carefully slide the radio into the mounting sleeve, making sure it is right-side-up, until it is fully seated and the spring clips lock it into place.

9. Attach one end of the perforated support strap (supplied) to the screw stud on the rear of the chassis using the hex nut provided. Fasten the other end of the perforated strap to a secure part of the dashboard, either above or below the radio, using the screw and hex nut provided. Bend the strap, as necessary, to position it. CAUTION: The rear of the radio must be supported with the strap to prevent damage to the dashboard from the weight of the radio or improper operation due to vibration.
10. Re-attach the front panel to the chassis and test radio operation by referring to the operating instructions for the unit.

NOTE: For proper operation of the CD player, the chassis must be mounted within 20° of horizontal. Make sure the unit is mounted within this limitation.

Kit Installation

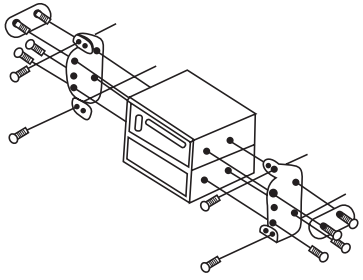
If your vehicle requires the use of an installation kit to mount this radio, follow the instructions included with the installation kit to attach the radio to the mounting plate supplied with the kit.

1. Wire and test the radio as outlined in the Universal Installation instructions.
2. Install the radio/mounting plate assembly to the sub-dashboard according to the instructions in the installation kit.
3. Attach the support strap to the radio and dashboard as described in the Universal Installation instructions.
4. Replace the dashboard trim panel.

ISO Installation

This unit has threaded holes in the chassis side panels which may be used with the original factory mounting brackets of some vehicles to mount the radio to the dashboard. Please consult with your local car stereo shop for assistance on this type of installation.

1. Remove the existing factory radio from the dashboard or center console mounting. Save all hardware and brackets as they will be used to mount the new radio.
2. Carefully unsnap the plastic frame from the front of the new radio chassis. Remove and discard the frame.
3. Remove the factory mounting brackets and hardware from the existing radio and attach them to the new radio. Do not exceed M5 x 9 MM maximum screw size. Longer screws may damage components inside the chassis.



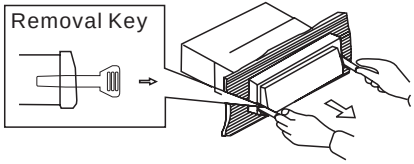
4. Wire the new radio to the vehicle as outlined in the Universal Installation instructions.
5. Mount the new radio assembly to the dashboard or center console using the reverse procedure of step 1.

Reconnecting the Battery

When wiring is complete, reconnect the battery negative terminal.

Removing the Radio

To remove the radio after installation, remove the trim ring by lifting in the center and pulling it off from either side. Insert the removal keys straight back until they lock, and then pull the radio out. If removal keys are inserted at an angle, they will not lock properly to release the unit.



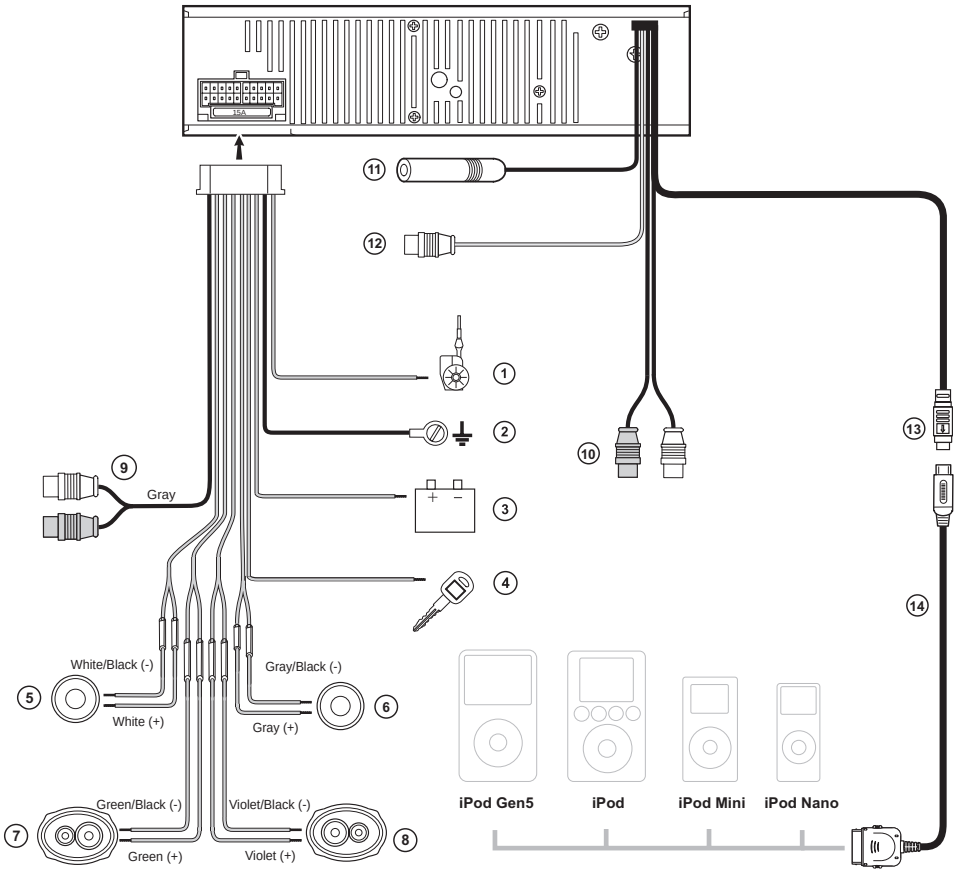
Fuses

When replacing a fuse, make sure the new fuse is the correct type and amperage. Using an incorrect fuse could damage the radio. The BT1611i uses one 15 amp fuse located below the wiring connector (15 amp fast blow ATO).

WIRING

1. Power Antenna (dark blue wire) - Connect to the power antenna or an amplifier. If not used, tape the bare end of wire.
2. Ground (black wire) - Connect to the ground terminal or a clean, unpainted part of the chassis.
3. Memory/Battery (yellow wire) - Connect to the battery or to a 12 volt power source that is always live. The radio will not work if this wire is not connected.
4. Accessory/Ignition (red wire) - Connect to the existing radio wire or radio fuse.
5. Left Front Speaker
6. Right Front Speaker
7. Left Rear Speaker
8. Right Rear Speaker
9. RCA Outputs to Amplifier
10. Auxiliary Input RCAs (yellow)
11. Antenna
12. Subwoofer Output (blue)
13. iPod/jLink connector - Use this 8-pin DIN socket to connect your jLink iPod cable.
14. jLinkcable (iPod Cable)

NOTE: The amplifiers in this radio are only designed for use with four speakers. Never combine (bridge) outputs for use with two speakers. Never ground negative speaker leads to chassis ground. Failure to wire exactly as shown may cause electrical damage to the radio.



OPERATING INSTRUCTIONS

Power

Press the power ⏻ button (1) or any other button on the face of the receiver to turn the unit on when the ignition switch is on. Press the power button again to turn the receiver off. If the radio was left on when the ignition was last turned off, the receiver will turn on automatically when the ignition switch is again turned on. If the receiver was off when the ignition was last turned off, the receiver must be turned on manually when restarting the vehicle.

Mode

Press **MODE** (2) to select a different mode of operation as indicated on the display panel. Available modes include Tuner, CDP, USB Host, SD/MMC, iPod and AUX. During CD player operation, pressing **MODE** will change to the tuner mode without ejecting the disc.

Volume

To increase the volume, turn the **AUDIO CONTROL** (3) clockwise. To decrease the volume, rotate the **AUDIO CONTROL** counter clockwise. When volume is adjusted, the volume level is shown on the display panel as a number ranging from “00” (lowest) to “46” (highest).

Audio Mute

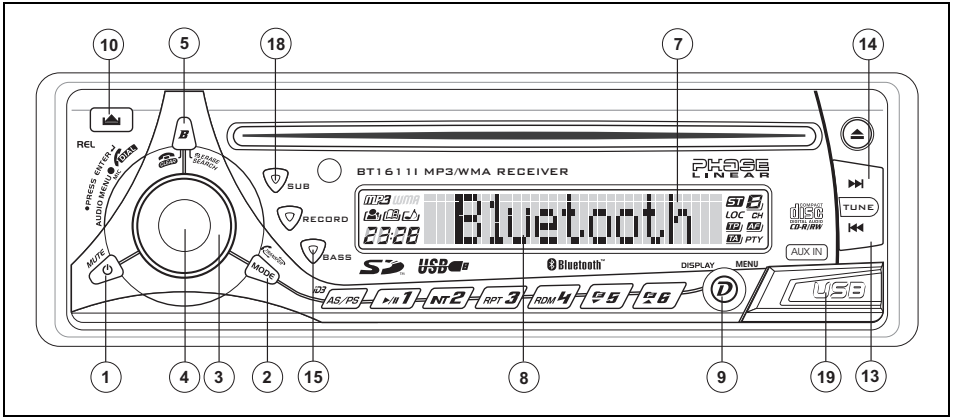
Press ⏻/**MUTE** button (1) to mute the audio volume. “Mute” flashes on the display. Restore volume to the previous setting by pressing the mute button again, adjusting the **AUDIO CONTROL**, or by pressing any other button on the unit.

Audio Menu

Press and hold the **AUDIO CONTROL** button (4) to access the Audio Menu. Press the **AUDIO CONTROL** button repeatedly to step through the menu of audio functions: volume, bass, treble, balance, fader, and volume. When adjusting audio functions, the unit will automatically exit select mode and return to the normal display after five seconds or when another function is activated.

Bass

Press the **AUDIO CONTROL** button (4) twice until “BASS” appears in the display. Within five seconds, turn the **AUDIO CONTROL** (3) to adjust the bass from “-6” to “+6”. “0” represents a flat response. The bass level is shown on the display for five seconds or until another function is activated.



Treble

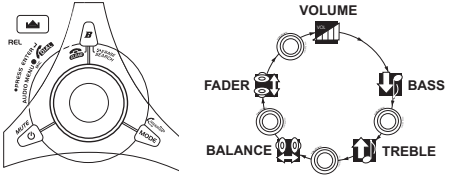
Press the **AUDIO CONTROL** button (4) three times until “TREBLE” appears in the display. Within five seconds, turn the **AUDIO CONTROL** (3) to adjust Treble from “-6” to “+6”. “0” represents a flat response. The treble level is shown on the display for five seconds or until another function is activated.

Balance

Press the **AUDIO CONTROL** button (4) four times until “BALANCE” appears in the display. Within five seconds, turn the **AUDIO CONTROL** (3) to adjust the Balance between the right and left speakers from “R12” (full right) to “L12” (full left). “C00” represents an equal balance level between the right and left speakers. The balance position is shown on the display for five seconds or until another function is activated.

Fader

Press the **AUDIO CONTROL** (4) five times until “FADER” appears in the display. Within five seconds, turn the **AUDIO CONTROL** (3) clockwise or counter clockwise to adjust balance between the front and rear speakers from “R12” (full rear) to “F12” (full front). “C00” represents an equal balance level between the front and rear speakers. The fader position is shown on the display for five seconds or until another function is activated.



System Menu

Press and hold the **D**/**DISPLAY** button (9) to view the system “MENU”. Press the **D**/**DISPLAY** button repeatedly or use the Up Tuning **>>|** and Down Tuning **|<<** (14, 13) buttons to access the following MENU options.

PAIRING

This feature is used to pair your mobile phone to the unit’s Bluetooth system. To initiate the pairing process select “Pairing” and then press the **AUDIO CONTROL** button.

RE-CONN/DIS-CONN

Use this feature to reconnect or disconnect a paired mobile phone manually. Turn the **AUDIO CONTROL** (3) to select “RE-CONN” to re-connect or “DIS-CONN” to disconnect and then press the **AUDIO CONTROL** button (4) to perform the operation.

A ANSWER (On/Off)

Select “On” to automatically answer calls without pressing the **AUDIO CONTOL** button (4),

PHONE VOL (00-38)

Use this feature to set the default ringing volume for all incoming calls. Use the **AUDIO CONTROL** to adjust the ring volume from “00” to “38”.

CONTRAST (00-10)

Use the **AUDIO CONTROL** to adjust the contrast level from 00-10.

Clock FORMAT (12H/24H)

This option allows selection of a 12 Hour or 24 Hour clock format. The default clock format is “12H”. Turn the **AUDIO CONTROL** to select the “24H” format.

Clock SET

Turn the **AUDIO CONTROL** left to adjust the hours and right to adjust the minutes.

AREA

Turn the **AUDIO CONTROL** to select the appropriate frequency spacing for your area: U.S.A., Latin, Europe, or Oirt (Russia).

Distant/Local

This feature is used to designate the strength of the signals at which the radio will stop during automatic tuning. “Distant” is the default setting,

allowing the radio to stop at a broader range of signals. To set the unit to select only strong local stations during automatic tuning, turn the **AUDIO CONTROL** to choose “Local”.

VOL PGM (00-46)

Use the “VOL PGM” option to select the default volume the radio will assume when first turned on. To program a specific start-up volume level, turn the **AUDIO CONTROL** to select the desired level.

BEEP TONE

The beep tone feature allows the selection of an audible beep tone to be heard each time a button is pressed on the face of the radio. “BEEP TONE On” is the default display. Turn the **AUDIO CONTROL** to select the “BEEP TONE Off” option.

iX-BASS

Press the **BASS** button (15) to activate the iX-BASS feature. When listening to music at low volume levels, this feature will boost the bass and treble ranges to compensate for the characteristics of human hearing. Press **BASS** again to deactivate this feature.

Subwoofer

Press the **SUB** button (18) to activate the Subwoofer function. Press again to turn the Subwoofer function off.

NOTE: The Subwoofer feature only works when an external amplifier and subwoofer are connected via the Sub line out connection on the back of the unit.

Liquid Crystal Display (LCD)

The liquid crystal display (LCD) panel (8) displays the frequency, time and activated functions of the unit.

NOTE: After being subjected to cold temperatures, LCD panels may take longer to respond and visibility of the numbers on the LCD may decrease slightly. The LCD display will return to normal when the temperature increases to a normal range.

Auxiliary Input

Use the Aux In cables on the back of the unit to connect a portable media device for playback through the vehicle sound system. To access the Auxiliary Input mode, press the **MODE** button (2) until "AUX" is indicated in the display.

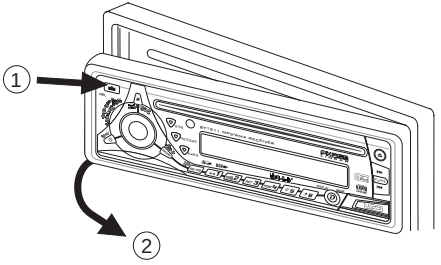
Front Panel Release

The front panel release button (10) releases the mechanism that holds the front panel to the chassis.

Detaching the Front Panel

To detach the front panel, first press the front panel release button (10) to release the left side of the panel. Next, grasp the released side and pull it off the chassis. After removing the front panel, store it in the supplied carrying case to protect it from dirt and damage.

REMOVE FRONT PANEL

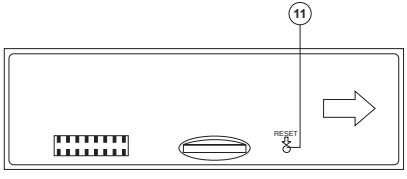


Re-attaching the Front Panel

To re-attach the front panel, make sure the electrical terminals on the back of the panel are free of dust and dirt, as debris could cause intermittent operation or other malfunctions. Position the right side of the panel in place so that it is correctly engaged, then lightly press the left side of the panel until the mechanism locks it into place.

Reset Button

The reset button (11) is located on the front of the chassis and can only be accessed with the front panel removed. The reset circuitry protects the microprocessor circuitry. Since resetting the unit will erase the time and preset memories, it should only be activated upon initial installation after all wiring is complete, or if there is a malfunction of any of the switches on the unit. In these circumstances, pressing the reset button will clear the system and return the unit to normal operation.



TUNER OPERATION

AM / FM Band Selector (BAND)

Press **BAND** (5) during radio play to switch between three FM bands and two AM bands. “FM1”, “FM2”, “FM3”, “AM1” or “AM2” will appear in the display to indicate the band currently selected.

Tuning

Automatic Tuning

Press the Up Tuning **>>|** (14) button to tune upward in frequency and the Down Tuning **|<<** (13) button to tune downward in frequency. The unit will automatically stop at the next strong station. If the Local mode is active, the radio will seek the next strong local station when either button is pressed.

Manual Tuning

Press the Up Tuning (14) or Down Tuning (13) button for more than two seconds to select manual tuning mode. “Manual Seek” will appear in the display. Press the Up or Down Tuning buttons to move radio frequency up or down two digits at a time. *Press and hold* the Up or Down Tuning buttons to quickly advance to a certain frequency. Release when the desired frequency is reached. If tuning is not adjusted within five seconds of entering manual tuning mode, the radio will revert to automatic tuning and “AUTO” will appear in the display.

Preset Stations

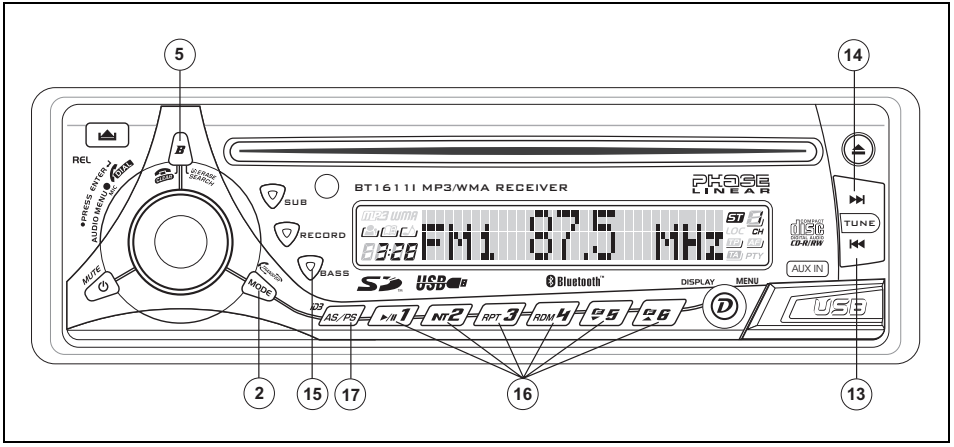
Up to six stations on each band can be stored as presets and can then be instantly recalled by pressing the associated preset button on the front panel (16) or remote control. To store a station, turn the radio on and select the desired band and station. *Press and hold* the desired preset button (numbered one through six on the face of the radio or remote control) for more than two seconds. When stored, the preset number will appear in the display. The station is now stored and can be recalled at any time by pressing the corresponding preset button.

Repeat for the remaining five presets on the current band and for all presets on the other four bands.

Automatically Store / Preset Scan (AS / PS)

Automatically Store

Select six strong stations and store them in the current band using the Automatic Store feature. To enable this feature, press and hold **AS/PS** (17) for more than two seconds. The radio will automatically scan the band in use and enter strong stations into the preset memory



positions for that band. After entering the stations into memory, the unit will automatically stop at each station for five seconds so each can be heard. When using the Automatically Store feature, the new stations replace any stations already stored in preset memory for the selected band.

Preset Scan

Press **AS/PS** (17) to scan the preset stations in the current band. The unit will stop at each station for five seconds before continuing to the next preset station. The preset number will flash on the display during the preset scan. Press **AS/PS** again to stop scanning and listen to the current station.

Stereo

The unit will automatically pick up a stereo signal, when available. When in stereo mode, the “ST” icon appears in the display. When no stereo signal is available, the unit will automatically revert to mono operation, and no icon will be displayed.

CD PLAYER OPERATION

Insert CD

With the label surface facing up, gently insert the disc into the CD slot (21) until the soft-loading mechanism engages and pulls the disc in. Disc play begins, “S-CDP” will appear in the display. The track number and elapsed time appear in the display.

NOTE: The unit is designed for play of standard 5” (12 cm.) compact discs only. Do not attempt to use 3” (8 cm.) CD singles in this unit, either with or without an adaptor, as damage to the player and/or the disc may occur. Such damage will not be covered by the warranty on this product.

Track Select

Track select features are used to quickly access the beginning of a particular track when a disc is in play. Press the Up Tuning button (14) to move forward or the Down Tuning button (13) to move backward on the disc to locate the desired track. Track numbers will appear in the display as they are accessed.

Press and hold the Up or Down Tuning buttons to fast forward or fast reverse through a disc. During either function, the elapsed time will appear on the display. Release the button to resume CD play.

Play / Pause

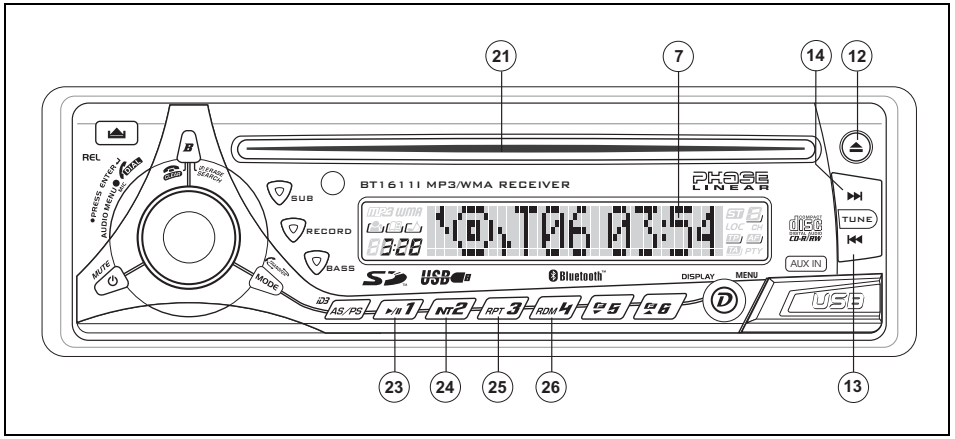
Press the play/pause button (23) to suspend disc play. “PAUSE” will appear in the display. Press the play/pause button again to resume disc play.

Disc Scan (INTRO)

During disc play, press **INT** (24) to play the first 10 seconds of each track on the disc. “INTRO” will appear in the display. When the desired track is reached, press **INT** again to end the scan function and play the selected track. The scan function will also be canceled when activating the repeat or shuffle functions.

Disc Repeat (RPT)

Press **RPT** (25) during disc play to continuously repeat the selected track. “REPEAT” will appear in the display. Press **RPT** again to stop repeating. “REPEAT” will disappear from the display, and regular play will resume. The repeat function will also be canceled when activating the scan or shuffle functions.



Disc Shuffle (RDM)

Press **RDM** (26) during disc play to play all tracks on a CD in random, shuffled order. “RANDOM” will appear in the display. Press **RDM** again to stop random play. “RANDOM” will disappear from the display and regular play will resume. The shuffle function will also be canceled when activating the scan or repeat functions.

Disc Eject

Press the eject button (12) to stop CD play and eject the disc. The unit will change to tuner or AUX operation, depending on which mode was in operation prior to disc play. If the disc is not removed from the unit within 15 seconds, the disc will be reloaded to prevent accidental damage. Disc play can be resumed by pressing **MODE** (2) to choose the CD player function.

MP3/WMA OPERATION

MP3 and WMA (Windows Media Audio) music files are digital audio files that are compressed to allow more files on a single CD. This unit can play MP3/WMA directly from files contained on a CD-R/RW using the buttons on the receiver (or optional remote) as described below. Many types of software are available for converting audio files into MP3/WMA formats. Phase Linear recommends *Nero or Roxio Easy CD Creator.* Depending on the media type and recording method, some CD-R/RWs may be incompatible with this unit. The unit supports playback of MP3/WMA and CDDA (CDA), Mixed-Mode CDs and CD-Extra (including multi-session discs), but **discs on which the session has not been closed will not play**.

Notes on MP3 / WMA Play

This unit can play MP3 (MPEG1, 2, 2.5 Audio Layer 3). However, the MP3 recording media and accepted formats are limited. When writing MP3/WMA, pay attention to the following restrictions.

Acceptable Media

The MP3/WMA recording media acceptable to this unit are CD-ROM, CD-R and CD-RW discs, USB devices and SD cards. When using CD-RW, use full format rather than quick format to prevent malfunction.

Acceptable Medium Formats

The following formats are available for the media used in this unit. The maximum number of characters used for file name including the delimiter (".") and three-character extension are indicated in parentheses.

- ISO 9660 Level 1 (11 characters)
- ISO 9660 Level 2 (31 characters)
- Joliet (31 characters)
- Romeo (31 characters)

Up to 200 characters can be displayed in the long file name format. For a list of available characters, see the instruction manual of the writing software and the section “Entering File and Folder Names” below. The media reproducible on this unit has the following limitations:

- Maximum number of nested folders: 8
- Maximum number of files per disc: 999
- Maximum number of files per media device: 2000
- Maximum number of folders per disc: 255

MP3/WMA written in formats other than those listed above will not play successfully and their file names or folder names will not be displayed properly.

MP3 / WMA Encoder and CD Writer Settings

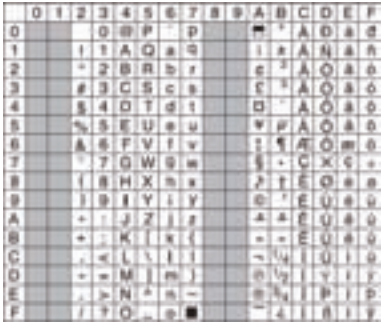
Use the following settings when compressing audio data to MP3 data with the MP3 encoder.

- Transfer bit rate: 32 - 320 kbps
- Sampling frequency: 32, 44.1, 48kHz (WMA) and 16, 22.05, 24, 32, 44.1, 48kHz (MP3)

When using a CD writer to record MP3/WMA up to the maximum disc capacity, disable additional writing. To record an empty disc up to the maximum capacity at once, select the “disc at once” option.

Entering ID3 Tag

This unit supports ID3 tag versions 1.0 and 1.1. For the character codes, refer to the table below.



Entering File and Folder Names

Names using the code list characters are the only file names and folder names that can be entered and displayed. Other characters will not display correctly. The unit recognizes and plays only files with the MP3/WMA extension.

NOTE: A file name entered with characters not on the code list may not play correctly.

Writing Files into a Medium

When a medium containing MP3/WMA data is loaded, the unit checks all data. If the medium contains many folders or non-MP3/WMA files, MP3/WMA play will be delayed, it may take time for the unit to move to the next file, and searches may not be performed smoothly. Loading such a medium may produce loud noise and cause damage to the speakers. ***Do not attempt to play a medium containing a non-MP3/WMA file with the MP3/WMA extension or a medium containing non MP3/WMA files.***

Electronic Shock Protection

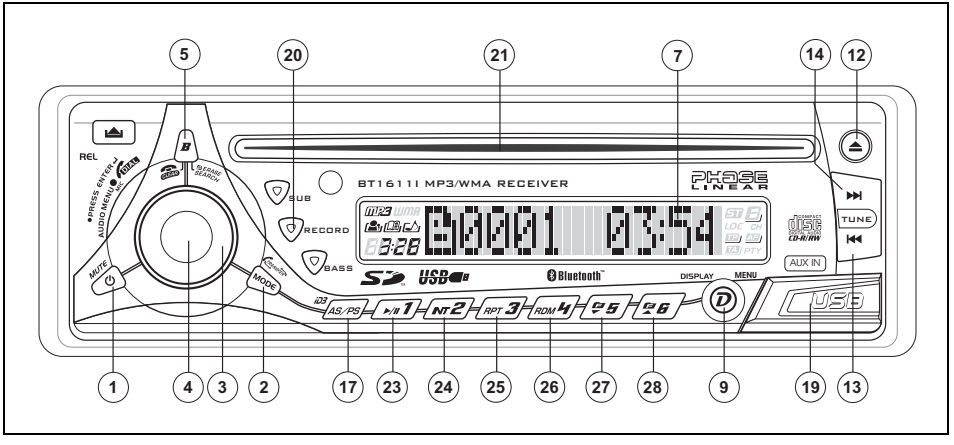
- 10 seconds for CDDA (CDA)
- 100 seconds for MP3/WMA recorded at 44.1kHz, 128kbps

Bit Rates

The unit supports bit rates from 32 - 320 kbps.

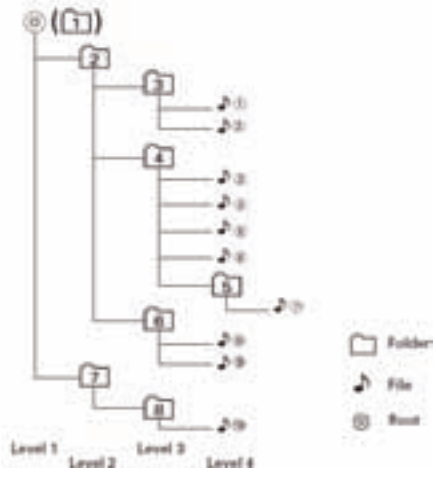
File Playing Order

When selected for play, files and folders (Folder Search, File Search or Folder Select) are accessed in the order they were written by the CD writer. As a result, the order in which they are expected to be played may not match the order in which they are actually played.



You may be able to set the order in which MP3/WMA are to be played by writing them onto a medium such as a CD-R with their file names beginning with play sequence numbers such as "01" to "99".

For example, a medium with the following folder/file hierarchy is subject to Folder Search, File Search or Folder Select as shown below.



Pause

Press the **1/>/||** button (23) to suspend disc play. Press the play/pause button again to resume play.

Track Select

Press the Up Tuning (14) or Down Tuning (13) button for less than one second to advance to the next track, or *press and hold* to fast forward or fast reverse. Disc play starts when the button is released.

Navigating Folders

Press the **F \/** and **F /** buttons (27, 28) to select the next or previous folder/directory.

Intro Scan (INT)

During playback, press **INT** (24) to play the first 10 seconds of each file on the disc or device. *Press and hold* the **INT** button to play the first 10 seconds of all files in the current folder. Intro play will begin with the first song in the folder, repeating the folder until the function is deactivated.

When the desired file is reached, press **INT** to end the scan and play the selected file.

Repeat (RPT)

Press the **RPT** button (25) to repeatedly play the current file.

Press and hold the **RPT** button to repeat play all files in the current folder.

Press **RPT** again to resume normal playback.

Random (RDM)

Press the **RDM** button (26) to randomly play all files.

Press and hold the **RDM** button to randomly play all files in the current folder.

Press **RDM** again to resume normal playback.

MP3 / WMA File or Folder Search

The unit offers two methods of searching for files or folders:

Direct File Number Search

Press the **B** button (5). The LCD will display "Number". Turn the **AUDIO CONTROL** to select the desired track number, then press the **AUDIO CONTROL** to confirm and play the selected file.

Navigation Search

Press the **B** button (5) twice. The LCD will display "Navigate". Turn the **AUDIO CONTROL** to navigate through all folders and sub-folders on the disc. The folder names will be displayed on the LCD. *Press and hold* the **AUDIO CONTROL** for more than three seconds to play the first file in the folder. Press the **AUDIO CONTROL** for less than three seconds to access the sub-folders or files. Turn the **AUDIO CONTROL** to navigate, then press the select knob to confirm and begin file play. During navigation search, turn the **AUDIO CONTROL**

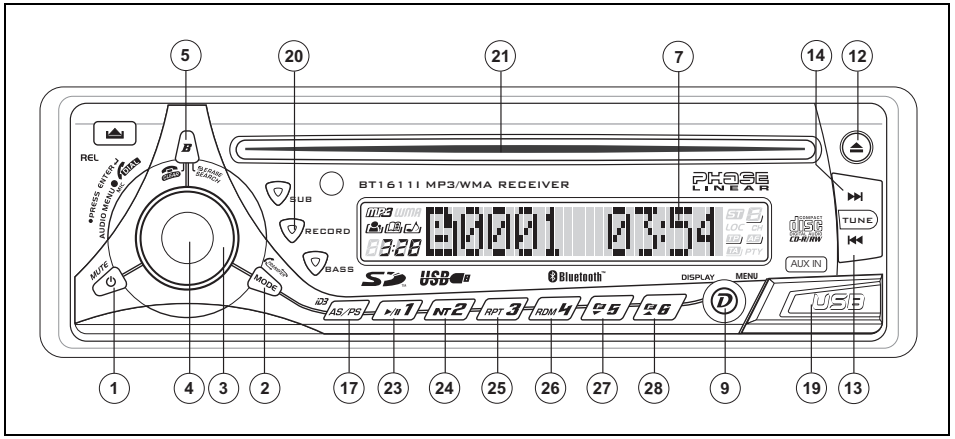
counter-clockwise to return to the previous folder level.

Display Information

During MP3/WMA playback, any available ID3 information, including song title, directory name, artist name, etc., automatically scrolls across the LCD screen.

ICON	DESCRIPTION
	TRACK ICON
	ARTIST ICON
	ALBUM ICON

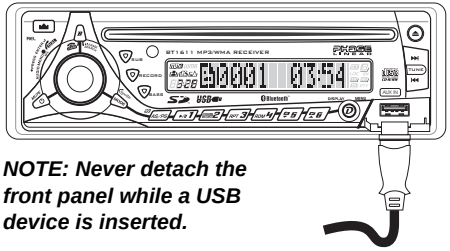
Press the **AS/PS** button (17) to manually view available ID3 information.



USING A USB DEVICE OR SD CARD

Loading a USB Device

USB devices can be played through the USB connector on the front panel. To access files on a USB device, insert the USB device as indicated below:



NOTE: Never detach the front panel while a USB device is inserted.

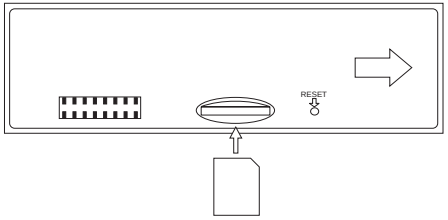
After inserting an USB device containing MP3 or WMA files, “USB Host” appears on the display and the unit will automatically scan the card for music files and begin playback.

To eject the USB device, press the **MODE** button (2) to select a different source. Pull the USB device straight out and return the cover to the closed position.

NOTE: Due to rapid changes in technology, the BT1611i may not support all USB devices, particularly those that require driver installation. Portable hard drives are not supported. In addition, Flash music players take longer to read than other types of USB devices, sometimes 20-30 seconds.

Loading an SD Card

To insert an SD card, you must first remove the front panel to reveal the SD card slot (see “Detaching the Front Panel” on page 9). Insert your SD Card as illustrated below and then reinstall the front panel.



After inserting an SD card containing MP3 or WMA files, “SD/MMC” appears on the display and the unit will automatically scan the card for music files and begin playback.

To eject the SD card, remove the front panel and then press in on the SD card to release it. Pull the SD card straight and replace the front panel.

Navigating Files

Please refer to “MP3/WMA Operation” on page 15 for information regarding directory navigation and file searching.

Recording CD Music

Your BT1611i is equipped with a Record feature that allows you to record music from a disc to an SD/MMC card or USB device. To record music, perform the following steps:

1. Insert a disc and select the track you would like to record.
2. Press the **RECORD** button (20) to activate the Record feature.
3. Turn the **AUDIO CONTROL** (3) to select the USB or CARD (SD/MMC) source.
4. Press the **AUDIO CONTROL** button (4) to begin recording.
   - The unit will begin recording the current file, starting at the beginning of the track. The LCD will display Rec USB. Recording will stop at the end of the file.
   - The recorded information is stored in a folder named “MY_CD” on the destination source.
   - Recording will stop and the unit will display “Memory Full” if the selected storage device is full.

To stop recording before the file is complete, press the Record button. The LCD will display REC ■ USB (or CARD) and the incomplete track will be deleted from the destination folder.

NOTE: Never remove a USB device during recording or music transfer. This may damage the device or cause the system to lock up. Do not switch modes or turn the radio power or ignition off while recording.

Transferring MP3 / WMA Music

Your BT1611i is equipped with a Music Transfer feature that allows you to record music from various sources to an SD/MMC card or USB device. To Transfer music, perform the following steps:

1. Play the media from which you would like to record.
2. Press the **RECORD** button (20) to activate the Transfer feature.
3. Turn the **AUDIO CONTROL** (3) to select the USB or CARD (SD/MMC) source.
4. Press the **AUDIO CONTROL** button (4) to begin recording.
   - The unit will begin recording the current file, starting at the beginning of the track. The LCD will display 10 % USB. Recording will stop at the end of the file.
   - The recorded information is stored in a folder named “MY_MP3” or “MY_WMA” on the destination source.
   - Recording will stop and the unit will display “Memory Full” if the selected storage device is full.

To stop recording before the file is complete, press the Record button. The LCD will display ■ USB (or CARD) and the incomplete track will be deleted from the destination folder.

NOTE: When recording from CD the song is played from beginning to end. When copying a MP3 or WMA file from any source the file is simply copied and stored, not played like CD.

Erasing Recorded Files

You can erase recorded files from a USB device or SD/MMC card while the file is playing, or after selecting the file in Number Search or Navigation Search mode. To erase a file, perform the following steps:

1. *Press and hold* the **BAND** button (5) to activate the Erase function. The LCD will display ERASE 0010.
2. Press the **AUDIO CONTROL** button (4) to select Erase mode.
3. Turn the **AUDIO CONTROL** (3) and select ↵ to erase (or select ✕ to cancel the erase function).
4. Press the **AUDIO CONTROL** button to confirm. The file will stop playback (if playing) and will be erased. When finished, the system will display ERASE ✓.

File Management

Music recorded or transferred using the BT1611i will be stored in the default folders listed below:

- MY_CD: Music Recorded from a CD.
- MY_MP3: Transferred MP3 files.
- MY_WMA: Transferred WMA files.

Recorded/transferred music is stored in the corresponding folder and given the following naming convention: “XX0001.MP3”, where XX is the name of the source (i.e. CD0001.MP3).

NOTE: MY_ AUX, MY_FM, MY_iPod, and MY_XM are set up on the destination source (SD, USB) as well as the above mentioned; however, these sources are not applicable for this model.

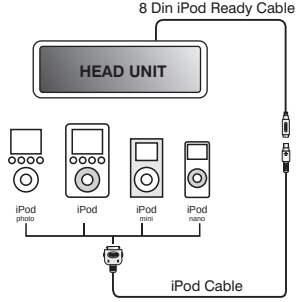
IPOD OPERATION

Accessing iPod Mode

This unit is equipped with an iPod ready function that will allow you to control and charge your iPod (if compatible) using the front panel control buttons. The following iPod versions are supported:

- iPod 3G (Firmware version 2.2 only)
- iPod 4G
- iPod Mini
- iPod Photo
- iPod Nano
- iPod 5G (Video)

The unit will automatically switch to iPod mode when an iPod is plugged into the iPod cable.

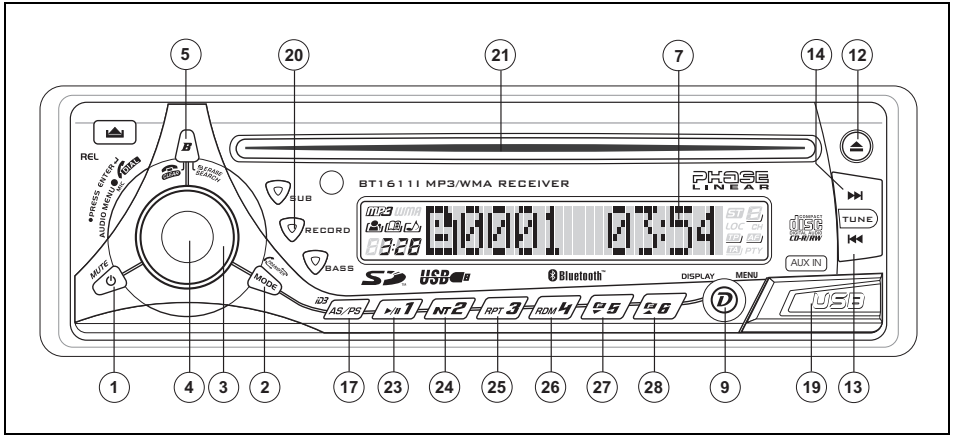


To return to the iPod menu from any other source menu, press the **MODE** button (2) on the front panel or remote control until “iPod” appears on the display.

NOTE: The BT1611i will not select video files regardless of whether or not a video file was the last file playing when the iPod was plugged into the radio. Only music files are supported.

Turning the iPod On/Off

The iPod power turns on automatically when the iPod is connected to 30-pin iPod cable, as long as the automobile ignition is turned on. You can turn the iPod off by disconnecting it from the cable or by turning the ignition off. When the ignition is turned off, the iPod will pause and then enter sleep mode after 2 minutes. The iPod cannot be turned on/off from the iPod itself while connected.



NOTE: The iPod will continuously recharge when connected to unit, as long as the vehicle ignition is turned on.

Viewing Playback Information

Press the **AS/PS** button (17) to display iPod playback information in the following order:

- Song Title
- Artist
- Album Name
- Elapsed Time

Play / Pause

Press the **>/||** button (23) to suspend or resume play.

Track Selection

Select a Track

Press the Up Tuning (14) or Down Tuning (13) button for less than 1 second to advance to the next song in the current folder.

Fast Forward / Fast Reverse

Press and hold the Up Tuning (14) or Down Tuning (13) button for more than 1 second to fast forward or fast reverse. Playback begins when the button is released.

Repeat (RPT)

Press the **RPT** button (24) during disc play to continuously repeat the selected song. Press **RPT** again to stop the repeat function.

Press and hold the **RPT** button (24) for more than 3 seconds to continuously repeat the entire album/folder. *Press and hold* **RPT** again to stop the repeat function.

Shuffle (RDM)

Press the **RDM** (25) button to randomly play all files in the current folder/album. Press **RDM** again to resume normal play. *Press and hold* **RDM** for more than three seconds during iPod playback to randomly play the songs in all folders. Press **RDM** again for more than three seconds to resume normal play.

Searching Mode

During iPod playback mode, press the **B** button (5) to enter iPod Searching Mode. Press the **B** button repeatedly to access search modes in the following order:

- Playlist
- Artist
- Album
- Song
- Genre

After selecting the desired search mode, press the **AUDIO CONTROL** button (4) within 10 seconds to confirm the search mode. Rotate the rotary encoder knob to navigate through the Album, Artist or Songs contained on your iPod. Press the **AUDIO CONTROL** to play the selected song. During the searching mode, press **AS/PS** to quickly return to the top level of the Album, Playlist, Genre, etc.

BLUETOOTH OPERATION

Before attempting to use the Bluetooth functions on the BT1611i, please make sure your mobile phone supports Bluetooth functions (Headset or Handsfree profiles or both). Adhere to the following guidelines for successful operation.

- Before using Bluetooth functions, you must pair your mobile phone to the BT1611i head unit. (See “Pairing the Bluetooth system with your Mobile Phone and Head Unit” on page 24.) To ensure the best reception for pairing and re-connection, please make sure the phone battery is fully charged before you begin.
- Try to perform pairing within a few minutes of the phone being turned on.
- Once the unit has been paired with the phone, “BT60” will be displayed on the mobile phone.
- To achieve the best performance, always keep the mobile phone within 3 meters of the head unit.
- Always keep a clear path between the mobile phone and the head unit. Never place a metal object or any other obstacle between the mobile phone and the head unit.
- Some mobile phones (like Sony Ericsson) may have a "Power Saving Mode" option. PLEASE DO NOT use the Power saving Mode with the BT1611i.
- Before accepting or making a call, make sure your mobile phone's “Bluetooth function” is turned on.
- To ensure the best conversation quality/ performance, stay within one meter of the head unit when talking.
- To “disconnect” the mobile phone from the head unit, turn the Bluetooth connectivity off on the mobile phone or use the DIS-CONN (disconnect) feature under the System Menu (see “RE-CONN/DIS-CONN” on page 8).
- While talking in Telephone mode, it is recommended that you set the main volume level below “30”. A higher volume setting may create an unwanted echo in the vehicle that can feed back into the microphone.
- If you have difficulty pairing or the Bluetooth operation is not functioning properly, you can try a “soft reset” by removing the front panel (see “Front Panel Release” on page 9) and waiting 1 minute. If after reattaching the panel, operation has not resumed normally, you can perform a complete system Reset (see “Reset Button” on page 10).

Pairing the Bluetooth system with your Mobile Phone and Head Unit

1. *Press and hold* the **D** (display) button (9) to access the MENU. PAIRING:1 is the first option on the menu.
2. Press the **AUDIO CONTROL** button (4) to initiate the pairing process. Keep the mobile phone within 2 meters of the unit during pairing.
3. Refer to the instructions that came with your mobile phone to activate the Bluetooth function and search for devices.
4. Select “BT60” from the pairing list on the mobile phone.
5. Enter “1234” as the password.
   - If pairing is successful, the display will show PAIRING:1 ✓.
   - If pairing fails, PAIRING:1 ✗ is flashed on the display for 3 seconds, and then the unit will revert to the previous operation automatically. If pairing fails, repeat the above steps.

NOTE: During Pairing, only the Power, Volume +/-, B (Clear) and Mute keys are functional. Other keys are disabled during pairing mode.

Reconnecting

Automatic Re-connection

The unit has a built-in Auto Re-connection function. When a paired phone is in range, the head unit will automatically reconnect with the mobile phone when the ignition key is turned on (only if the mobile phone was previously paired with the head unit). The unit will also automatically reconnect when attempting to dial a call through the head unit.

Manual Re-connection

Under the following conditions, you may need to reconnect manually:

- If the mobile phone is out of range (more than 2 meters from the head unit).
- If the connection is lost and while talking on the phone (or there is an incoming call) more than 2 meters from the head unit.
- When doing an audio transfer from the phone back to the head unit.

To manually reconnect with the paired phone, perform the following steps:

1. *Press and hold* the **D** (display) button (9) to access the MENU.
2. Press the **D** button again to select the RE-CONN:1 option.
   - The LCD displays RE-CONN:1 during the re-connection period.
   - If the re-connection is successful, the LCD Display displays RE-CONN:1 ✓ and returns to the previous mode.
   - If the re-connection fails, the LCD displays RE-CONN:1 ✗ and automatically returns to the previous mode.

Disconnecting the Phone from the Head Unit

To manually disconnect with the paired phone, perform the following steps:

1. *Press and hold* the **D** (display) button (9) to access the MENU.
2. Press the **D** button again to select the RE-CONN:1 option.
3. Turn the **AUDIO CONTROL** (3) to select DIS-CONN:1.
   - The LCD displays DIS-CONN:1 during the disconnection period.
   - If the disconnection is successful, the LCD Display displays DIS-CONN:1 ✓ and returns to the previous mode.

Managing Incoming Calls

When there is an incoming call, the LCD will display the Caller ID. If the incoming call has no caller ID, the LCD will display “PHONE IN”.

NOTE: When a call comes in during stand-by mode (ignition on/power off), the head unit will turn on automatically so you can accept/reject the call.

NOTE: When a call comes in during talking mode, the OPEN/EJECT button (31) becomes deactivated.

Answering an Incoming Call

To answer the incoming call, press the **AUDIO CONTROL** (DIAL) button (3).

NOTE: During an incoming call, the audio output is muted and a ringtone is played. CD play is paused.

Use the **AUDIO CONTROL** (3) to adjust the volume during your phone conversation. During an active call, the LCD will display “Phone >>>>” followed by the the elapsed call time.

To end the conversation, press the **B** (CLEAR) button (5).

Rejecting an Incoming Call

Press the **B** (Clear) button (5) to reject an incoming call.

Making an Outgoing Call

1. Press the **AUDIO CONTROL** button (4) to begin an outgoing call. The LCD will display and a cursor will blink while waiting for the phone number entry.
2. Turn the **AUDIO CONTROL** to select 0-9, *, and # to input the phone number, pressing the **AUDIO CONTROL** to confirm each selection. Press the **B** (CLEAR) button (5) to clear the last digit, or use the Up Tuning (14) or Down Tuning (13) buttons to move the cursor back or forward to the incorrect input digit and then press **B**.
3. After entering the phone number, press and hold the **AUDIO CONTROL** or press the **MODE** button (2) to dial the call.

NOTE: The audio output will only be muted after the PHONE button is pressed to dial the outgoing call.

NOTE: During an outgoing call or during talking mode, the OPEN/EJECT button (31) becomes deactivated.

Use the **AUDIO CONTROL** (3) to adjust the volume during your phone conversation. To end the conversation, press the **B** (CLEAR) button (5).

If the ignition is turned off during a call, the unit will remain on, allowing you to complete the call, until you press the **B** (CLEAR) button to turn the unit off. **The unit will continue to operate on battery power until it is turned off.**

Call Transfer

While talking, to transfer audio from the head unit back to the mobile phone, press the **MODE** (Transfer) button (2). The LCD will display TRANSFER for 3 seconds.

- When making an outgoing call, it's not possible to transfer the call if it is not yet answered. You can only transfer a call after it has been answered.
- The time it takes to transfer the call back to the phone will vary depending on your phone model.

NOTE: The BT1611i can only handle one call at a time, two lines cannot be active at one time even if your phone has call waiting.

Dialed List

1. Press the **AUDIO CONTROL** button (4) to display the dial screen: .
2. *Press and hold* the **AUDIO CONTROL** to view the last number dialed.
3. Turn the **AUDIO CONTROL** navigate through the last 10 dialed numbers.
4. *Press and hold* the **AUDIO CONTROL** to dial the selected number.

NOTE: To edit a number on the dialed list, press the AUDIO CONTROL and then use the Up Tuning (14) or Down Tuning (13) buttons to move the cursor back or forward to the number you want to change. Press B (Clear) to erase the selected digit/character.

Auto Answer

1. *Press and hold* the **D** (display) button (9) to access the MENU.
2. Press the **D** button repeatedly to select the "A ANSWER" option.
   - If "Off" is selected, you must press the **AUDIO CONTROL** button (4) to answer an incoming call.
   - If "On" is selected, the unit will automatically answer the incoming call after three seconds.

Incoming Call Ringing Volume

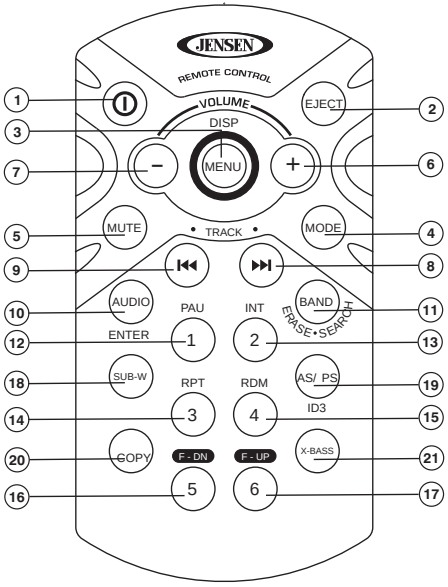
The MENU allows you to set the default ringing volume for all incoming calls.

1. *Press and hold* the **D** (display) button (9) to access the MENU.
2. Press the **D** button repeatedly to select the "PHONE VOL" option.
3. Use the **AUDIO CONTROL** to adjust the ring volume from "00" to "38".

REMOTE CONTROL

The remote control will allow you to control the basic functions of the BT1611i.

The remote control sensor is located on the left side of the front panel to the right of the **SUB** button (18).



KEY	SYSTEM		TUNER		CD/MP3/WMA		iPod	
	Short Press	**Long Press**	**Short Press**	**Long Press**	**Short Press**	**Long Press**	**Short Press**	**Long Press**
1	Power							
2	Panel Open/Close				Eject			
3	Display	Menu						
4	Mode							
5	Mute							
6	Volume Up							
7	Volume Down							
8			Seek Up	Tune Up	Track/File Up	Fast Forward	File Up	Fast Forward
9			Seek Down	Tune Down	Track/File Down	Fast Reverse	File Down	Fast Reverse
10	Audio Menu				Enter		Enter	
11			Band		File/Folder Search	File Erase	iPod Search	
12			M1	Memory 1	Pause/Play		Pause/Play	
13			M2	Memory 2	Intro	Folder Intro		
14			M3	Memory 3	Repeat	Folder Repeat	Repeat	Album Repeat
15			M4	Memory 4	Random	Random Folder	Shuffle	Album Shuffle
16			M5	Memory 5	Folder Down			
17			M6	Memory 6	Folder Up			
18	Subwoofer on/off							
19			PS	AS	ID3		Info	
20	Record/ Copy							
21	iX-Bass on/ off							

CARE AND MAINTENANCE

CD Player

The following guidelines will help you extend the life of your CD player:

1. When cleaning the vehicle interior, do not get water or cleaning fluids on the unit.
2. The CD player will not operate properly in extreme hot/cold or under damp conditions. In case of such conditions, wait until the vehicle interior reaches a normal temperature or any condensation on the disc player lens has evaporated before using the player.
3. Never insert anything other than round 5” CDs into the player. Attempting to insert CDs of other sizes (even with an adaptor) will cause damage not covered by the warranty.
4. Always remove the CD when the player is not is use.
5. The unit is designed with a vibration dampening CD mechanism to minimize interruption of disc play due to normal vibration in a moving vehicle. However, occasional sound skips may occur when driving on very rough roads. This will not scratch or damage the disc, and normal play will resume when the rough conditions cease.

Compact Discs

CD-R and CD-RW Capability

Depending on media type and method of "recording/burning", some CD-R/RWs may be incompatible with this unit. After "recording/burning", the **session must be closed.** Please refer to your software's recommended procedures for closing a disc/session. Review your recording software to familiarize yourself with the correct "recording/burning" procedures. We recommend using the latest versions of ROXIO™ or NERO™ burning software.

In addition, **this unit will only recognize the CDDA (Compact Disc Digital Audio), .MP3 and .WMA formats** "recorded / burned" onto a CD-R/RW. **This unit does not support .WAV, .OGG or other formats.**

CD Care and Handling

Dirt, dust, scratches and warpage can cause skips in the playback and deterioration of sound quality. Please follow these guidelines to take care of your compact discs.

1. Carefully wipe fingerprints, dust and dirt from the disc’s playing surface with a soft cloth. Wipe in a straight motion from the inside to the outside of the disc.
2. Never use chemicals such as record sprays or household cleaners to clean CDs, as they can irreparably damage the disc’s surface.
3. Discs should be kept in their storage cases when not in use.
4. Do not expose discs to direct sunlight, high temperatures or high humidity for long periods.
5. **Do not stick paper, tape or CD labels on disc surfaces, as internal damage may occur.**

TROUBLESHOOTING

CD Player Error Codes

If a problem should develop while operating the CD player, an error code (ER-1, ER-2, etc.) may appear on the display panel. This can indicate a number of problems with the unit, including a mechanical error or an error in the microprocessor control of the player. If an error code should appear, try ejecting and reloading the disc into the player. While the disc is out of the unit, make sure it is clean and undamaged, and then load it correctly. If this does not solve the problem, pressing the **RESET** button (11) may help, but will erase the time and preset memory (see “Reset Button” on page 10). If the suggested measures do not solve the problem, contact an approved warranty station near you for further assistance.

Potential Errors

Problem	Cause	Corrective Action
Does not operate (display does not light)	No power to yellow wire; no power to red wire	Check connection and/or vehicle fuse with test light.
	Inline fuse blown	Replace fuse.
No power to unit	Inline fuse blown	Check/replace fuse.
Not all speakers operate	Incorrect splices or connections	Check splices and connections.
	Speaker wires shorting to chassis ground or to each other	Check splices and insulate all bare wires.
Blows fuses	Power wire shorting to ground	Make sure wire is not pinched.
	Speaker wires shorting to ground	Make sure wire is not pinched.
	Incorrect fuse or fuse too small	Install fuse of correct rating.
CD skips too much	Receiver mount is not solid or backstrap is not secure	Check mounting and backstrap and tighten if needed.

SPECIFICATIONS

CEA Power Ratings

Power output: 13 watts RMS X 4 channels into 4-ohms @ ≤ 1% THD+N
Signal to noise ratio: 70dBA below reference. (Reference: 1 watt, 4-ohms)
Frequency response: 20Hz to 20kHz (-3dB), Auxiliary input used as source reference
Reference supply voltage: 14.4VDC

CD Player

Signal-to-noise ratio: >90dBA
Frequency response: 20Hz-20kHz, -3dB
Channel separation: >55dB @ 1kHz
D/A converter: 1 Bit/CH

FM Tuner

Tuning range (USA): 87.5MHz - 107.9MHz
Tuning range (Europe): 87.50MHz-108.00MHz
Mono sensitivity: 12dBf
50dB quieting sensitivity (stereo): 16dBf
Stereo separation @ 1kHz: >35dB
Frequency response: 30Hz-14kHz. ±3dB

AM Tuner

Tuning range (USA): 530 kHz - 1710 kHz
Tuning range (Europe): 522kHz-1620kHz
Sensitivity @ 20dB signal to noise: 30uV
Frequency response: 50Hz-2kHz., -3dB

Auxiliary Input

Input sensitivity: 400mV RMS for 1 watt RMS into 4-ohms
Frequency response: 20Hz to 20kHz, -3dB
Input impedance: 10 k-ohms

General

Power supply: 11-16 VDC, negative ground
Power Antenna (Blue): 500mAmp Max, current limited protection.
Operating Temp: -10C~60C
Fuses: 15 amp fast blow ATO
DIN chassis dimensions: 2"H x 7"W x 7"D (51mm x 178mm x 178mm)

Specifications subject to change without notice.

Limited Warranty

CD or Multimedia Radios/Headunits

DO NOT RETURN THIS PRODUCT TO THE STORE

Audiovox Electronics Corporation ("the Company") is committed to quality and customer service, and are pleased to offer you this Warranty. Please read it thoroughly and contact the Company at 1-800-323-4815 with any questions.

Who is covered?

The Company extends this warranty to the original retail purchaser of products purchased through an authorized Audiovox retailer in the U.S.A., Puerto Rico or Canada. This warranty is not transferable or assignable. Proof of purchase is required in the form of an original sales receipt.

What is covered?

The Company warrants that should this product or any part thereof, under normal use, be proven defective in material or workmanship within 90 days from the date of original purchase, such defect(s) will be repaired or replaced with a new or reconditioned product (at the Company's option) without charge for parts and repair labor.

What is not covered?

This Warranty *does not* cover the following:

- Damage incurred during shipping or transporting the product to the Company or a service center
- Elimination of car static or motor noise
- Defects in cosmetic, decorative or non-operative structural parts
- Correction of antenna problems
- Costs incurred for installation, removal or reinstallation of the product
- Consequential damage to compact discs, USB devices, digital media cards, accessories or vehicle electrical systems
- Damage caused by improper installation, mishandling, misuse, neglect, accident, blown fuse, battery leakage, theft or improper storage
- Products whose factory serial number/bar code label(s) or markings have been removed or defaced
- Damage resulting from moisture, humidity, excessive temperature, extreme environmental conditions or external natural causes

Please review the "Care and Maintenance" section of your Installation and Operation Manual for additional information regarding the proper use of your product.

Limitations

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 24 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Obtaining Warranty Service

- To obtain repair or replacement within the terms of this Warranty, call 1-800-323-4815 for the location of a warranty station serving your area.
- You must prepay the initial shipping charges to the Company. The Company will pay the return shipping charges for all warranteed products returned to an address within the U.S.A., Puerto Rico or Canada.
- Please package the product securely to avoid shipping damage. We recommend using a carrier that provides tracking service to prevent lost packages. Lost or damaged packages are not covered by this warranty.
- Provide a detailed description of the problem(s) for which you require service.

PHASE LINEAR

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